

# Recombinant human CDK2 protein

Catalog Number: ATGP1180

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-298aa

### UniProt No.

P24941

### NCBI Accession No.

NP\_001789.2

### Alternative Names

Cyclin-dependent kinase 2, p33, CDK2

## PRODUCT SPECIFICATION

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### Molecular Weight

35.0 kDa (306aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CDK2, also known as cyclin-dependent kinase 2, is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and is essential for cell cycle G1/S phase transition. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by protein phosphorylation. Recombinant human CDK2 protein, fused to His-tag at C-terminus, was expressed in E.

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coli and purified by using conventional chromatography.

## Amino acid Sequence

MENFQKVEKI GEGTYGVVYK ARNKLTGEVV ALKKIRLDTE TEGVPSTAIR EISLLKELNH PNIKLLDVI HTENKLYLVF  
EFLHQDLKKF MDASALTGIP LPLIKSYLFQ LLQGLAFCHS HRVLHRDLKP QNLLINTEGA IKLADFGAR AFGVPVRTYT  
HEVVTWLYRA PEILLGCKYY STAVDIWSLG CIFAEMVTRR ALFPGDSEID QLFRIFRITLG TPDEVVWPGV TSMPDYKPSF  
PKWARQDFSK VVPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRL<LE HHHHHH>

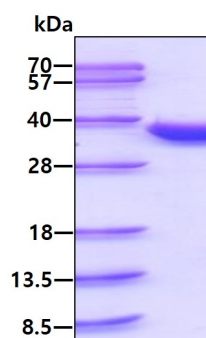
## General References

Gyuris J., et al. (1993) Cell. 75:791-803

Hannon G.J., et al. (1994) Proc. Natl. Acad. Sci. u.S.A. 91:1731-1735

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.